

I CLAIM:

1. A rotor for a combine harvester, wherein the rotor, in use, is housed and able to rotate within a housing defined within the combine harvester, the rotor comprising:

an elongate body extending between a front portion over which crop material is able to pass when the crop material enters the housing and a rear portion over which the crop material is able to pass when the crop material is being expelled out of the rear of the housing;

a threshing portion extending along a part of the elongate body of the rotor between the front portion and the rear portion, the threshing portion having a plurality of thresher elements connected thereto for threshing crop material; and

a driver portion extending along a part of the elongate body of the rotor between the threshing portion and the rear portion, the driver portion having at least one driver element connected thereto for driving the threshed material rearwardly from the threshing portion towards the rear portion.

2. A rotor for a combine harvester according to claim 1 wherein the driver element is a helical element.
3. A rotor for a combine harvester according to claim 1 wherein an impeller blade is fitted to the front portion of the rotor for facilitating the entry of the crop material into the cylindrical housing.
4. A rotor for a combine harvester according to claim 1 wherein a plurality of pins are attached to the driver portion of the rotor to drive

the threshed material rearwardly through the combine harvester and to separate the threshed produce from the chaff.

5. A rotor for a combine harvester according to claim 1 wherein the length of the threshing portion is between approximately 0.9 m and 1.3 m and the length of the driver portion is between approximately 0.9 m and 1.3 m.
6. A rotor for a combine harvester according to claim 1 wherein a plurality of kicker plates are connected to the rotor for discharging the chaff out of the back of the harvester.